CLAIMS

1. A solid electrolyte represented by a general formula:

$Li_aP_bM_cO_dN_e$,

where M is at least one element selected from the group consisting of Si, B, Ge, Al, C, Ga and S, and a, b, c, d and e respectively satisfy a = 0.62 to 4.98, b = 0.01 to 0.99, c = 0.01 to 0.99, d = 1.070 to 3.985, e = 0.01 to 0.50, and b+c = 1.0.

2. The solid electrolyte in accordance with claim 1, wherein said formula satisfies a = 0.62 to 2.98, b = 0.01 to 0.99, c = 0.01 to 0.99, d = 1.070 to 3.965, e = 0.01 to 0.50, and b+c = 1.0.

3. The solid electrolyte in accordance with claim 1, wherein said formula satisfies a = 1.61 to 2.99, b = 0.01 to 0.99, c = 0.01 to 0.99, d = 2.060 to 3.975, e = 0.01 to 0.50, and b+c = 1.0.

4. The solid electrolyte in accordance with claim 1, wherein said formula satisfies a = 1.61 to 2.99, b = 0.01 to 0.99, c = 0.01 to 0.99, d = 3.050 to 3.985, e = 0.01 to 0.50, and b+c = 1.0.

5. The solid electrolyte in accordance with claim 1, wherein said formula satisfies a = 2.6 to 3.0, b = 0.01 to 0.99, c = 0.01 to 0.99, d = 2.60 to 3.975, e = 0.01 to 0.50, and b+c = 1.0.

6. The solid electrolyte in accordance with claim 1, wherein said formula satisfies a = 2.61 to 3.99, b = 0.01 to 0.99, c = 0.01 to 0.99, d = 3.050 to 3.985, e = 0.01 to 0.50, and b+c = 1.0.

7. The solid electrolyte in accordance with claim 1, wherein said formula satisfies a = 2.62 to 4.98, b = 0.01 to 0.99, c = 0.01 to 0.99, d = 3.050 to 3.985, e = 0.01 to 0.50, and b+c = 1.0.

8. An all solid state battery comprising: a positive electrode; a negative electrode; and the solid electrolyte in accordance with claim 1 disposed between said positive electrode and said negative electrode.